

CLAIMS

1. Installation for very long term storage of calorific products, comprising at least one confinement container (14) for said products, an evaporator (22) comprising a jacket (28) surrounding the container (14) and a plurality of pipes (32) integral with the jacket (28) and filled with a coolant fluid, and means (40) for tightening the evaporator (22) on the container (14), characterised in that the evaporator (22) has an internal surface such that the tightening means (40) maintain the evaporator (22) in close contact with an external surface (30) of the container (14) only in front of each of the pipes (32).

2. Installation according to claim 1, wherein the internal surface of the evaporator (22) has, between the pipes (32), a radius of curvature considerably greater than that of the external surface (30) of the container (14).

3. Installation according to either one or the other of claims 1 and 2, wherein the internal surface of the evaporator (22) comprises, in front of each of the pipes (32), a part (44) of shape complementary with the external surface (30) of the container (14), maintained in close surface contact with said external surface by tightening means (40).

4. Installation according to any one of claims 1 to 3, wherein the pipes (32) are fixed inside a

continuous structure, of substantially circular cross-section, forming the jacket (28).

5 5. Installation according to claim 4, wherein the pipes (32) are fixed inside the jacket (28) by welding.

6. Installation according to claim 4, wherein the pipes (32) comprise cooling fins (32a) located between the jacket (28) and the container (14).

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7. Installation according to any one of claims 1 to 3, wherein each pipe (32) is made in a single piece with two jacket sections (28a) and the jacket sections (28a) integral with neighbouring pipes (32) are
15 assembled together edge to edge to form the jacket (28).

8. Installation according to claim 7, wherein the jacket sections (28a) integral with neighbouring pipes
20 (32) are assembled together by welding (54).

9. Installation according to either one or the other of claims 7 and 8, wherein the jacket sections (28a) integral with neighbouring pipes (32) are
25 assembled together by mechanical connection means (56).

10. Installation according to any one of claims 1 to 9, wherein the pipes (32) have a substantially square or rectangular cross-section.

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11. Installation according to any one of claims 1 to 9, wherein the pipes (32) have a substantially circular cross-section.

5 12. Installation according to claim 10, wherein the pipes (32) have flanges (52) with one internal face maintained in close surface contact against the external surface (30) of the container (14) by tightening means (40).

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13. Installation according to any one of claims 1 to 12, wherein an external surface of the evaporator (22) comprises cooling fins (58).

15 14. Installation according to any one of the above claims wherein, apart from zones located in front of the pipes (32), the evaporator (22) is at a distance from the container (14) so as to define vertical channels (42) for air circulation, by natural
20 convection.

15. Installation according to claim 14, wherein the channels (42) are part of a closed circuit constituting a confinement.